

- (b) Explain the working of fuel cell or solar cell including the reactions involved.
- (c) Elucidate the functioning of any one of the following battery including the reactions involved.
- (i) Lead acid battery
 - (ii) Lithium ion battery (4×3)
4. (a) What are fertilizers ? How they can be classified on the basis of their application ?
- (b) Write a short note on mixed fertilizers.
- (c) Explain the manufacture of ammonium nitrate. (4×3)
5. (a) Discuss the objectives and process of electroplating for metallic coatings.
- (b) Write the requisites of a good paint.
- (c) Write a short note on enamels. (4×3)
6. (a) What are propellants ? How they can be classified ?
- (b) Write the manufacture of lead azide.
- (c) How the power of an explosive can be determined ? Write any one method. (4×3)
7. (a) Describe the steps involved in the manufacture of glass.
- (b) Differentiate between wet and dry process for the manufacture of cement.
- (c) Write a short note on hardening and setting of cement. (4×3)
8. (a) Write the steps involved in the manufacture of steel
- (i) What are alloys ? How they can be classified ?
 - (ii) Explain quick setting cement. (6×2)
- (300)